

BP 105 FLUID MIXING TANK



GENERAL DESCRIPTION

The fluid mixing tank is a bench top unit for a study of mixing two materials.

The unit consists of a mixing tank with removable baffles and a drain valve. A variable speed agitator is mounted on a column with base and can be moved vertically to facilitate impeller installation or removal. Various types of impellers are provided.

Instruction manual is also included.

EXPERIMENT CAPABILITIES

- Mixing/flow visualization.
- Power/speed of different impellers.
- Mixing of solid/liquid suspensions.
- Mixing of two immiscible liquids.
- Mixing quality vs mixing time.
- Prediction of power for large scale mixers.

TECHNICAL DATA

- Mixing tank
 - Materials : Acrylic
 - Capacity : Approx. 30 L
- Agitator speed : Upto 900 rpm
- Speed control : Inverter
- Digital display : Speed
 - : Torque
 - : Power
- Impellers
 - Turbine blade : 1 ea.
 - Propeller blade : 1 ea.
 - Flat blade paddles : 1 ea.
 - Flat blade paddles with holes : 2 ea.
- Software for data display and analysis by computer (separately supply)
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- BP 105-001 Additional impellers
- BP 105-003 Removable heat transfer coil (1500 W) using outside water supply for cooling or heating the mixture.
- BP 105-005 Air supply

Net (unpacked) Shipping Dimensions WxLxH : 45 x 45 x 90 cm
Net Weight : Approx. 30 kg